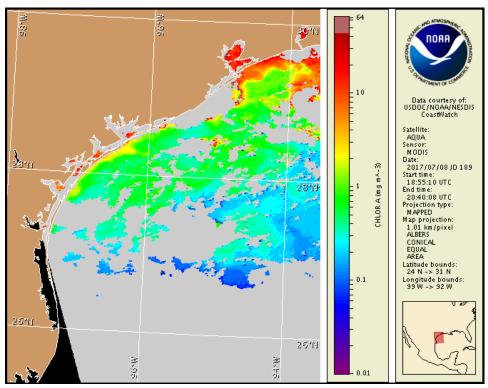


## Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas Monday, 10 July 2017 NOAA National Ocean Service NOAA Satellite and Information Service NOAA National Weather Service

Last bulletin: Monday, July 3, 2017



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from June 30 to July 6: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

https://tidesandcurrents.noaa.gov/hab/hab\_publication/GOMX\_HAB\_Bulletin\_Guide.pdf

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at: http://www.tpwd.state.tx.us./landwater/water/environconcerns/hab/redtide/status.phtml

https://tidesandcurrents.noaa.gov/hab/gomx.html

# **Conditions Report**

*Karenia brevis* (commonly known as Texas red tide) ranges from not present to background concentrations along the coast of Texas. No respiratory irritation is expected alongshore Texas Monday, July 10 through Monday, July 17. For local information check the Texas Parks and Wildlife Department Red Tide page (http://tpwd.texas.gov/landwater/water/environconcerns/hab/redtide/).

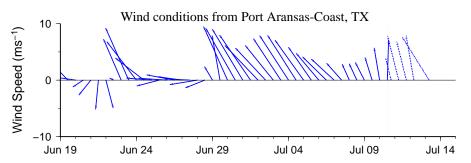
#### Analysis

Sampling from Texas A&M University's Imaging FlowCytobot (IFCB), located on the Port Aransas ship channel, indicates that *Karenia brevis* concentrations range between 'not present' and 'background' (TAMU; 7/3-7/10). For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Recent MODIS Aqua ensemble imagery (7/8; shown left) is partially obscured alongshore by clouds, limiting analysis of that region. Elevated chlorophyll (2 to  $5\mu g/L$ ) is visible alongshore from Galveston Bay to Corpus Christi Bay, but does not contain the optical characteristics of *K. brevis* and is most likely due to the resuspension of benthic chlorophyll and sediments along the coast.

Forecast models based on predicted near-surface currents indicate a potential maximum transport of 20km north from the Port Aransas region from July 8 to July 13.

#### Keeney, Davis

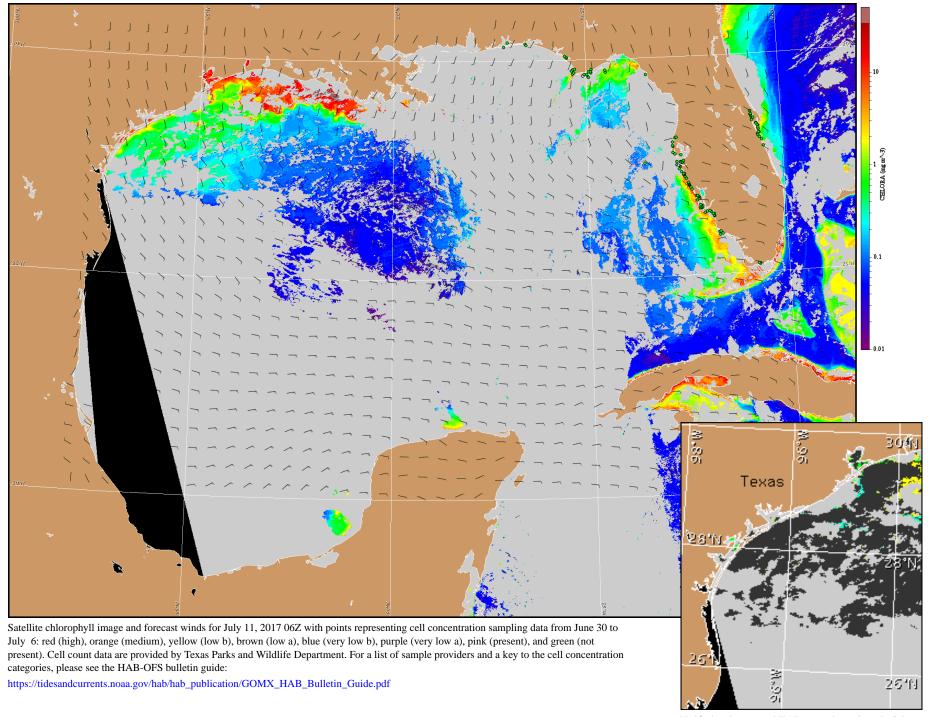


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

### Wind Analysis

**Port Aransas to Matagorda Ship Channel**: South to southeast winds (5-15kn, 3-8m/s) today through Friday.

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the Gulf of Mexico HAB:



Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).